

**CARDIAC RHYTHM MANAGEMENT SYSTEM SELECTING A-V DELAY  
BASED ON INTERVAL BETWEEN ATRIAL DEPOLARIZATION  
AND MITRAL VALVE CLOSURE**

**Abstract**

5           A cardiac rhythm management system selects an atrioventricular (A-V) delay  
based on a time-interval between an atrial depolarization and mitral valve closure  
(MVC). For several different A-V delays, the system measures time intervals  
between atrial depolarizations (i.e., sensed or paced P-waves) and accelerometer-  
detected MVCs. Based on this information, the system selects a particular A-V  
10   delay for improving cardiac output during subsequent delivery of cardiac rhythm  
management therapy.

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